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**SOME ARACHNIDA FROM NORTH CAROLINA.**

BY NATHAN BANKS.

The material upon which this article is based was collected by Prof. J. H. Emerton, Mr. William Beutenmüller, and the writer, mostly in the mountainous, western part of the State. Prof. Emerton, during a collecting trip in the South in 1903, stopped at a number of localities in North Carolina. His itinerary was about as follows:

Durham, 8 and 9 July; Chapel Hill, 10 July; Salisbury, 12 July; Morganton, 12 July; Pineola, 14 July; Road to Roan Mt., 15 July; Roan Mt. Summit, 15 to 18 July; Linville, 19 July; Blowing Rock, 19 July; Paint Rock, 20 July; Asheville, 23 July; Balsam, 24 July; and Black Mt., Aug. 1 to 3.

Mr. Beutenmüller collected for several seasons in the valley of the Black Mountains for the American Museum of Natural History. The spiders were sent to me for identification. The writer spent the last two weeks of May, 1910, in the same valley visited by Mr. Beutenmüller. This valley is on the north fork of the Swannanoa River, about five miles from Black Mountain Station. The altitude is about 2,500 or 2,600 feet; and most of the collecting was done below 3,000 feet. Some specimens were taken on the summit of Mt. Graybeard, a neighboring peak, 5,548 feet high.

The spider fauna of these western mountains is similar in many respects to that found in New York and New England. Some few species, such as *Hypochilus* and *Nemastoma*, indicate the remnants of a fauna once connected with that of the Northwestern United States and China, or Mongolia. Why these few forms, so long resident in these mountain valleys, have failed to spread, will, doubtless, long be a puzzling question. There is apparently nothing in their habits to justify such a restricted habitat.

**HYPOCHELIIDÆ.*****Hypochilus thorelli* Marx.**

Paint Rock; Balsam; Swannanoa Valley, up Sugar Fork, hanging under rocks near stream.

**SCYTODIDÆ.*****Scytodes thoracica* Latr.**

Durham.

## PHOLCIDÆ.

**Pholcus phalangioides** Fuessl.

Chapel Hill, Salisbury.

## DYSDERIDÆ.

**Ariadne bicolor** Htz.

Paint Rock.

## DRASSIDÆ.

**Sergiolus variegatus** Htz.

Black Mts. (Beuttenmüller).

**Sergiolus cyaneoventris** Simon.

From Southern Pines (Manee).

**Zelotes atra** Htz.

Roan Mt. Summit, Swannanoa Valley.

**Zelotes depressa** Emer. Pl. XXXIV, fig. 1.

Swannanoa Valley.

**Zelotes frigida** Banks.

Swannanoa Valley.

**Callilepis femoralis** n. sp. Pl. XXXV, fig. 11.

Cephalothorax pale red-brown, margin darker; mandibles red-brown; sternum and coxae pale yellowish-brown; abdomen deep black; legs pale, but femora and tibiæ I and II black, and densely black-haired. Eyes about as in *C. imbecilla*, the rows very short, and the S. E. perhaps a little larger than in *C. imbecilla*; sternum a little longer than broad; abdomen truncate at base, depressed; legs long and slender, the metatarsi and tarsi longer than usual in the genus; tibiae I and II with three pairs of spines below, the last apical, two pairs below these metatarsi, tarsus I only a little shorter than metatarsus I.

Length 10 mm.

From Mt. Graybeard, N. Car., 23 May, 1910. Differs from *C. imbecilla* in longer legs, and darker femora and tibiæ I and II.

**Callilepis imbecilla** Keys.

Balsam, Swannanoa Valley, among dead leaves.

**Drassus robustus** Emer.

Swannanoa Valley, among leaves.

## CLUBIONIDÆ.

**Clubiona abbotti** Koch.

Balsam, Mt. Graybeard, Swannanoa Valley, in dead leaves of Rhododendron.

**Clubiona crassipalpis** Keys.

Swannanoa Valley, in curled Rhododendron leaves.

**Clubiona pallens** Htz.

Swannanoa Valley, one female.

**Clubiona canadensis** Emer.

Linville.

**Chiracanthium inclusum** Htz.

Chapel Hill.

**Trachelas tranquilla** Htz.

Swannanoa Valley, one female.

**Castianeira pinnata** Emer.

Blowing Rock, one female.

**Phrurolithus alarius** Htz.

Swannanoa Valley, common under stones; this is *P. palustris* Bks.

**Phrurolithus** sp.

One female from Balsam; this is the form that Emerton figured as female of *P. alarius*; he will describe it as new.

**Phrurolithus formica** Banks.

Swannanoa Valley, under stones; I have seen this species from Missouri.

**Gayenna pectorosa** Koch.

Mt. Graybeard, Swannanoa Valley, in dead leaves.

**Gayenna saltabunda** Htz.

Durham.

**Micaria agilis** Bks.

Chapel Hill, road to Roan Mt., Pineola.

**Scotinella** n. gen.

Clubionid, maxillæ rather short, inclined over the lip, lip broader than long, eyes similar to *Liocranum*, posterior eye-row straight, the P. M. E. slightly elliptical, dorsal groove present; spinnerets short; legs slender, without spines, except two on anterior femora, and a double series of long ones beneath tibiæ and metatarsi I and II, no spines on hind legs; claws long, not much curved, with small teeth near base. Differs from *Scotina*, *Liocrannum*, *Agræca*, and *Apostenus* in absence of spines on the hind legs.

**Scotinella pallida** n. sp. Pl. XXXIV, fig. 7.

Cephalothorax uniform yellowish, sternum and legs paler; abdomen whitish; all clothed with short hairs, dense on abdomen, sparse on

cephalothorax. Cephalothorax a little longer than broad, broad in front, groove distinct; eyes as figured, mandibles moderately stout, each with a prominent erect bristle on middle of front; abdomen truncate at base, rather slender, sternum nearly as long as broad, broadest behind coxae II, somewhat 7-sided, rounded at tip. Legs slender, with short hairs, spines only as follows: two long, erect ones on middle of femur I, a double row of six each under tibia I, a double row under metatarsus I, 4 on inner side, 3 on outer side; beneath tibia II, 5 pairs, and under metatarsus II, 3 pairs, none of these are apical, and all very long.

Last joint of palpus densely clothed with short spine-like bristles.

Length 2.3 mm.

From Black Mt., north fork of the Swannanoa River, May, under dead leaves in forest.

#### AGELENIDÆ.

##### *Agelena nævia* Htz.

Morganton, Linville, Murphy, Blowing Rock, Pineola, Durham, Black Mt., Swannanoa Valley, not common.

##### *Tegenaria derhami* Scop.

Roan Mt. Summit, Salisbury, Paint Rock, Swannanoa Valley.

##### *Cybæus giganteus* Bks.

Balsam, Black Mts. (Beutenmüller).

##### *Coras medicinalis* Htz.

Balsam.

##### *Cœlotes calcarata* Keys.

Mt. Graybeard, one female, male and female from Swannanoa Valley, Black Mts., Sept. (Beutenmüller).

##### *Cicurina arcuata* Keys.

Balsam, Swannanoa Valley.

##### *Cicurina brevis* Emer.

Roan Mt. Summit, Black Mts., Sept. (Beutenmüller).

##### *Hahnia agilis* Keys.

Roan Mt., Chapel Hill, Swannanoa Valley.

#### DICTYNIDÆ.

##### *Dictyna foliacea* Htz.

Pineola, Mt. Graybeard, Swannanoa Valley, common.

##### *Dictyna sublata* Htz.

Morganton, Durham.

**Dictyna armata** n. sp. Pl. XXXIV, fig. 9.

Male; cephalothorax reddish-brown, rather paler on the head, with white hairs; abdomen reddish-brown through the middle of dorsum, blackish on base and sides, the posterior dorsum often broken up by blackish bands, sometimes dorsum mostly all dark, with a pair of pale spots in front, one on each side before middle, and a row of pale spots behind in middle; legs very pale; venter and sternum pale. Female, cephalothorax pale yellowish through the middle, sides brownish, almost black on lower sides of head; abdomen pale yellowish, a faint dark spear-mark on base, two rows of brown spots behind, and the sides with dark marks; venter and sternum wholly pale, unmarked; legs very pale, and very slender, the abdomen rather short, broad, and flat. The male palpus has a very long tibial spur, which is faintly bifid at tip, and bears two bristles.

Length ♂ 1.5 mm.; ♀ 1.4 mm.

From north fork Swannanoa River, Black Mountain, N. Car.; the webs were found in dead, curled Rhododendron leaves lying on the ground.

**Amaurobius bennetti** Blackw.

Roan Mt. Summit, Blowing Rock.

**THERIDIIDÆ.****Theridium tepidariorum** Koch.

Paint Rock, Linville, Pineola, Chapel Hill, Swannanoa Valley.

**Theridium rupicola** Emer.

Paint Rock, Swannanoa Valley, quite common under stones.

**Theridium punctosparsum** Emer.

Balsam, Swannanoa Valley, beating Rhododendron leaves.

**Theridium spirale** Emer.

Swannanoa Valley, only one taken, sweeping.

**Theridium differens** Emer.

Durham, Road to Roan Mt., Balsam, Swannanoa Valley.

**Theridium atramontanum** n. sp. Pl. XXXV, fig. 12.

Cephalothorax yellowish, with a brown median stripe from eyes to tip, sometimes broken up near eyes. Legs yellowish (♂), in ♀ whitish with the femora I yellowish near tip. Abdomen grayish-white, reticulate above, with a basal, median brown mark, one on each lower anterior side, and two rows of three or four dark spots on the posterior middle of the dorsum, sometimes these dark marks outline a pale median stripe; venter and sternum pale unmarked.

Of the general structure and shape of *T. differens*, the male abdomen rather low, the female Epeira-shaped. Legs long and slender.

Length ♀, 2 to 2.5 mm.; ♂, 2 to 2.3 mm., femora I (♂), 2 mm.; tibia plus patella, 2.1 mm.; metatarsus, 1.9 mm.

From north fork Swannanoa River, Black Mountain, N. Car.; usually found under the leaves of the lowland Rhododendrons.

**Theridium murarium** Emer.

Linville, Durham.

**Theridium blandum** Htz.

Blowing Rock, Swannanoa Valley; sweeping.

**Theridium frondeum** Htz.

Road to Roan Mt., Pineola, Blowing Rock, Swannanoa Valley.

**Theridium globosum** Htz.

Swannanoa Valley, one.

**Theridula sphærula** Htz.

Morganton, Durham, Murphy, Blowing Rock, Pineola, Swannanoa Valley.

**Euryopis funebris** Htz.

Black Mts. (Beutenmüller).

**Dipœna nigra** Emer.

Swannanoa Valley, sweeping.

**Pedanostethus riparius** Keys.

Road to Roan Mt.

**Steatoda borealis** Htz.

Linville, Murphy, Pineola.

**Enoplognatha marmorata** Htz.

Pineola, Roan Mt. Summit, Swannanoa Valley, under stones.

**Teutana triangulosa** Walck.

Chapel Hill.

**Crustulina guttata** Reuss.

Swannanoa Valley, among dead fallen leaves.

**Asagena americana** Emer.

Linville, one.

**Lathrodetes mactans** Fabr.

Morganton, Swannanoa Valley, Black Mts. (Beutenmüller).

**Epesinus amoënum** n. sp. Pl. XXXV, figs. 13, 15.

Cephalothorax pale, with a broad dark stripe over head and back to near the tip, a more or less distinct dark streak near or on the sides,

eyes surrounded by black. Dorsum of abdomen grayish or blackish as far back as the humps, the sides and hind margin of this dark is edged with white; behind paler, but darker again toward tip; venter blackish on the sides, pale in the middle; sternum dark, with a pale median streak. Legs pale, broadly marked with brown, or reddish-brown; femur I mostly brown, others near tip; patellæ mostly dark; tibiæ brown at each end, broader at tip, and hardly distinct on legs II and III; metatarsi narrowly marked with brown at base and tip; and the tips of the tarsi usually darker. The cephalothorax is broad and rounded, the head distinctly elevated, the eyes as usual, but the hind row is scarcely recurved; the abdomen is flat, truncate at base, widened to the humps at the posterior third, and then tapers to tip.

Length 3 mm.

From north fork Swannanoa River, Black Mountain, N. Car., May; obtained by beating Rhododendron bushes.

**Spintharus flavidus** Htz.

Paint Rock.

**Argyrodes trigonum** Htz.

Linville, Swannanoa Valley.

**Argyrodes cancellatus** Htz.

Chapel Hill, Durham.

**Ariamnes ficiolum** Htz.

Durham, one specimen.

**Ceratinella fissiceps** Cambr.

Roan Mt. Summit.

**Ceratinella minuta** Emer.

Swannanoa Valley, among dead leaves.

**Ceratinella brunnea** Emer.

Black Mts., Sept. (Beutenmüller).

**Ceratinella instabilis** Cambr.

Black Mt. (Beutenmüller).

**Notionella interpres** Cambr.

Morganton, Chapel Hill, Linville, Pineola, Swannanoa Valley, Black Mts. (Beutenmüller), very common.

**Ceratinopis nigripalpis** Emer.

Swannanoa Valley, among dead leaves.

**Ceratinopis alternatus** Emer.

From Balsam.

**Maso frontata** Banks. Pl. XXXV, fig. 17.

Swannanoa Valley, under fallen leaves.

**Lophocarenum mœstum** Banks. Pl. XXXV, fig. 10.

Swannanoa Valley, sifting fallen leaves.

**Diplocephalus rostratus** Emer.

Black Mts., Sept. (Beutenmüller), one male.

**Diplocephalus carolinus** n. sp. Pl. XXXIV, fig. 2.

Cephalothorax chestnut-brown; legs yellow-brown; abdomen black, sternum yellowish-brown, black on margins. Head elevated, into a median lobe, which is truncate in front and bears the P. M. E., which are over two diameters apart; A. M. E. small, scarcely diameter apart, farther from the larger A. S. E., the P. S. E. close to A. S. E. Inner edge of front of the mandibles with two small teeth; sternum fully as broad in front as long, rather rounded between hind coxae, which are separated by more than their width.

Length 1.5 mm.

From Black Mt., N. Car., Swannanoa Valley, sifting fallen leaves.

**Gonglydium atramontensis** n. sp. Pl. XXXIV, figs. 5, 8.

Cephalothorax pale yellowish, legs still paler; abdomen blackish above and below; sternum blackish. Cephalothorax broad, mandibles with three teeth on outer side and a large median one on the inner edge; palpi long and slender, the basal hook large, a sharp, straight, simple stylet at tip; the sternum as broad at base as long, triangular, sharp-pointed behind; legs long and slender.

Length 1.1 mm.

From north fork of the Swannanoa River, Black Mountain, N. Car., May, under fallen leaves.

**Hypselistes florens** Cambr.

Black Mts. (Beutenmüller).

**Grammonata ornata** Cambr.

Black Mts. (Beutenmüller).

**Cornicularia indirecta** Cambr.

Black Mts., Sept. (Beutenmüller).

**Erigone autumnalis** Emer.

Swannanoa Valley, among leaves.

#### LINYPHIIDÆ.

**Linyphia phrygiana** Koch.

Roan Mt. Summit, in balsam trees, Swannanoa Valley, Black Mts. (Beutenmüller), common.

***Linyphia maculata* Emer.**

One from Swannanoa Valley.

***Linyphia grandæva* Keys.**

Roan Mt. Summit, one female.

***Linyphia communis* Htz.**

Linville, Chapel Hill, Road to Roan Mt., Balsam, Durham, Swannanoa Valley, very common.

***Linyphia marginata* Koch.**

Paint Rock, Linville, Murphy, Chapel Hill, Balsam, Pineola, Swannanoa Valley, common.

***Neriene clathrata* Sundv.**

Swannanoa Valley, on ground in the cherry orchard.

***Linyphiella coccinea* Htz.**

Morganton, Chapel Hill, Durham.

***Tapinopa bilineata* Banks.**

Black Mts., Sept. (Beutenmüller).

***Leptyphantes minuta* Blackw.**

Black Mt.

***Bathyphantes zebra* Emer.**

Mt. Graybeard, Swannanoa Valley, among dead leaves.

***Bathyphantes micaria* Emer.**

Swannanoa Valley, in grass.

***Bathyphantes galbea* Keys.**

Swannanoa Valley, one specimen.

***Bathyphantes unimaculata* Banks.**

Swannanoa Valley, in old meadow.

***Bathyphantes nigrina* Westr.**

Roan Mt. Summit.

***Microneta cornupalpis* Emer.**

Black Mts., Sept. (Beutenmüller), one male.

**MIMETIDÆ.*****Mimetus intersector* Htz.**

Chapel Hill, Swannanoa Valley, on low branches of trees.

**TETRAGNATHIDÆ.*****Pachygnatha tristriata* Koch.**

Blowing Rock.

**Tetragnatha laboriosa** Htz.

Morganton, Pineola, Black Mt., Linville, Durham, Murphy, Blowing Rock, Swannanoa Valley, common.

**Tetragnatha grallator** Htz.

Durham, Murphy, Linville, Paint Rock, Swannanoa Valley, common.

**Eugnatha straminea** Emer.

Linville, Swannanoa Valley.

**EPEIRIDÆ.****Epeira displicata** Htz.

Swannanoa Valley, common.

**Epeira globosa** Keys.

Linville.

**Epeira foliata** Koch (*strix* Htz.).

Road to Roan Mt., Blowing Rock, Linville, Swannanoa Valley, on porch.

**Epeira vulgaris** Htz.

Salisbury, in stables.

**Epeira infumata** Htz.

Swannanoa Valley, young.

**Epeira domiciliorum** Htz.

Asheville.

**Epeira ocellata** Clerck.

Roan Mt. Summit, on balsam trees.

**Epeira sanguinalis** Htz.

Durham, one female.

**Epeira juniperi** Emer.

Black Mt., Paint Rock.

**Epeira sericata** Clerck.

Black Mt., also (Beutenmüller).

**Epeira gigas** Leach.

Black Mts. (Beutenmüller).

**Epeira nordmanni** Thor.

Linville, Swannanoa Valley, young.

**Epeira trifolium** Htz.

Linville.

**Epeira trivittata** Keys.

Morganton, Linville, Black Mt., Blowing Rock, Durham.

*Epeira prompta* Htz.

Paint Rock, Linville, Murphy, Black Mt., Durham, Swannanoa Valley, sweeping meadow.

*Epeira catawba* n. sp. Pl. XXXIV, fig. 4.

Cephalothorax dark brown, paler in eye-region, two pale median spots behind eyes, two more elongate near middle, and the posterior part under the abdomen is pale. Abdomen whitish-gray above, mottled and streaked behind and on the sides by greenish-white; underside pale, mottled with brownish, and with dark streaks radiating from the spinnerets; sternum pale, with faint dark spots on the sides; legs pale, marked with dark brown, two or three spots on femora, the patella mostly dark, and two spots on tibiæ, less distinctly on the metatarsi. Abdomen short, and broad, and high, about as broad behind as long, the base at middle with a pair of small approximate humps, at each outer corner a double hump, not elevated; the tip, seen from below, shows two other humps not far from the spinnerets; sternum with four humps each side and one behind; finger of epigynum quite long, transversely wrinkled on basal part.

Length 3 mm.

From Asheville (July).

*Plectana stellata* Htz.

Morganton, Durham.

*Metepeira labyrinthea* Htz.

Morganton, Durham, Pineola, Linville.

*Acacesia foliata* Htz.

Morganton, Paint Rock, Black Mt., Durham, Chapel Hill.

*Zilla montana* Koch.

Roan Mt. Summit, on houses and dead trees.

*Singa truncata* Banks.

Swannanoa Valley, in web near ground.

*Mangora gibberosa* Htz.

Black Mt., Blowing Rock, Durham, Chapel Hill.

*Mangora maculata* Keys.

Black Mt., Chapel Hill.

*Mangora placida* Htz.

Paint Rock, Linville, Durham, Chapel Hill, Mt. Graybeard, Swannanoa Valley, very common.

*Cyclosa conica* Pallas.

Linville, Durham, Black Mt., Blowing Rock, Balsam, Chapel Hill, Pineola, Black Mts. (Beutenmüller).

***Theridiosoma radiosa* McCook.**

Swannanoa Valley, not uncommon sweeping low plants; Pineola.

***Gea heptagon* Htz.**

Chapel Hill, one male.

***Argiope trifasciata* Forsk.**

Durham, Road to Roan Mt., Linville.

***Argiope aurantia* Lucas.**

Raleigh.

***Leucauge hortorum* Htz.**

Linville, Black Mt., Road to Roan Mt., Durham, Chapel Hill, Swannanoa Valley, Black Mts. (Beutenmüller).

***Acrosoma gracilis* Walck.**

Asheville, Swannanoa Valley, Black Mts. (Beutenmüller).

***Acrosoma spinea* Htz.**

Chapel Hill.

**ULOBORIDÆ.*****Uloborus plumipes* Lucas.**

Morganton, Swannanoa Valley, Black Mts. (Beutenmüller), web on dead branches.

***Hyptiotes cavatus* Htz.**

Paint Rock, Durham.

**THOMISIDÆ.*****Misumena vatia* Clerck.**

Black Mts. (Beutenmüller).

***Misumena oblonga* Keys.**

Morganton, Balsam, Pineola, Durham, Roan Mt. Summit, Blowing Rock, Black Mts. (Beutenmüller).

***Misumessus asperatus* Htz.**

Morganton, Durham, Swannanoa Valley, mostly young.

***Runcinia aleatoria* Htz.**

Morganton, Pineola, Durham, Chapel Hill.

***Xysticus ferox* Htz.**

Pineola.

***Xysticus triguttatus* Keys.**

Pineola, Blowing Rock.

***Xysticus formosus* Banks.**

Black Mts. (Beutenmüller).

**Xysticus gulosus** Keys.

Morganton, Chapel Hill, Swannanoa Valley.

**Coriarachne versicolor** Keys.

Black Mts. (Beutenmüller).

**Tmarus caudatus** Htz.

Durham, Chapel Hill, Swannanoa Valley, on dead branches.

**Philodromus rufus** Walck.

Swannanoa Valley, Black Mts. (Beutenmüller), common.

**Philodromus ornatus** Banks.

Black Mts. (Beutenmüller).

**Philodromus carolinus** n. sp. Pl. XXXV, figs. 14, 16.

Cephalothorax whitish, with several short brown streaks in eye-region, one each side on clypeus, and three brown spots on each side of the cephalothorax. Legs yellowish or brownish-yellow, the femora whitish, femora I and II with a broad brown stripe on anterior side beneath, behind mostly brown; femora III and IV with a dark brown stripe on the anterior side beneath, one behind and a less distinct one above, rest of legs not plainly striped, although tibiæ III and IV are darker in front below than elsewhere. Abdomen white, with a pattern of rich brown marks as in the figure; venter and sternum whitish. Cephalothorax moderately broad; eyes all small and wide apart; legs II a little longer than I, femora II longer than the cephalothorax, tibiæ and metatarsi I and II each with two pairs of long spines beneath, the second pair at the middle of joint; femur I with three bristles on front, and two above.

Length 3.5 mm.

From Durham, N. Car., 8 July (Emerton).

**PISAURIDÆ.****Pisaurina undata** Htz.

Morganton, Murphy, Chapel Hill, Swannanoa Valley, Black Mts. (Beutenmüller).

**Dolomedes urinator** Htz.

Swannanoa Valley, near stream.

**Dolomedes fontanus** Emer.

Lower part of Roan Mt., Black Mts. (Beutenmüller).

**Dolomedes vernalis** Emer.

Swannanoa Valley, in a bush.

**Dolomedes sexpunctatus** Htz.

Swannanoa Valley, by side of stream.

## LYCOSIDÆ.

**Pardosa retrorsa** n. sp. Pl. XXXIV, figs. 3, 6.

Cephalothorax nearly black on the sides, black on eye-region, and there traversed by a narrow median line of white hair, extending down to the front eye-row; behind with a broad median reddish stripe, much constricted before the dorsal groove; some pale spots on the sides; and some white on the sides of clypeus. Mandibles reddish-brown, maxillæ pale, lip black, sternum blackish; abdomen pale above, blackish on anterior sides, and with some scattered black marks above, most noticeable behind; venter pale. Legs pale, the front femora black, and other femora and hind tibiæ more or less distinctly banded with dark; basal joint of palpus black, rest pale. Of general shape of *P. lapidicina*, but legs perhaps a little longer, all with long stout spines.

Length 6 mm.; hind legs 15 mm.

From Linville, N. Car., July (Emerton). Related to *P. lapidicina*, but the palpus quite different, and the white line on eye-region is peculiar. A female, apparently of this species, sent by Prof. Emerton, was taken at Coles Creek Notch, 20 miles north of Bloomsburg, Pa., 19 Sept., by Mr. Lutz.

**Pardosa minima** Keys.

Swannanoa Valley, in meadow.

**Pardosa canadensis** Blackw.

Morganton, Balsam, Roan Mt., Murphy, Linville, Pineola, Asheville, Durham.

**Pardosa moesta** Bks.

Linville, one female.

**Pardosa lapidicina** Emer.

Roan Mt., Swannanoa Valley, in field.

**Lycosa carolinensis** Walck.

Asheville.

**Lycosa helluo** Walck.

Asheville, Swannanoa Valley.

**Lycosa frondicola** Emer.

Swannanoa Valley, among dead leaves.

**Lycosa aspersa** Htz.

Linville, Durham, Black Mts., Sept. (Beutennmüller).

**Lycosa lenta** Htz.

Morganton.

***Lycosa pulchra* Keys.**

Swannanoa Valley, one female.

***Lycosa avida* Walck.**

Roan Mt., Blowing Rock, Linville, Pineola, Swannanoa Valley, under stones.

***Lycosa ocreata* Htz.**

Pineola, Balsam, Linville, Swannanoa Valley, very common, Black Mts. (Beutenmüller).

***Lycosa gracilis* Bks.**

Paint Rock, Swannanoa Valley, common.

***Lycosa punctulata* Htz.**

Chapel Hill.

***Lycosa rabida* Walck.**

Morganton, Asheville, Swannanoa Valley, young.

***Pirata minuta* Emer.**

Blowing Rock, Pineola.

***Pirata montana* Emer.**

Linville, Balsam, Asheville, Swannanoa Valley, very common in a woods near stream.

***Geolycosa missouriensis* Bks.**

Chapel Hill.

***Trochesa cinerea* Fabr.**

Morganton.

***Allocosa funerea* Htz.**

Swannanoa Valley, common.

***Allocosa sublata* Montg.**

Swannanoa Valley, a few specimens.

**OXYOPIDÆ.*****Oxyopes salticus* Htz.**

Morganton, Paint Rock, Linville, Blowing Rock, Pineola, Durham, Roan Mt., Chapel Hill, Swannanoa Valley.

***Peucetia viridans* Htz.**

Durham.

**ATTIDÆ.*****Phidippus andax* Htz.**

Swannanoa Valley, young, Black Mts. (Beutenmüller).

***Phidippus podagrosus* Htz.**

Asheville, Mt. Graybeard.

***Phidippus insignarius* Koch.**

Swannanoa Valley, one specimen sweeping.

**Phidippus rufus** Htz.

Durham.

**Dendryphantes octavus** Htz.

Durham, Swannanoa Valley, very common.

**Dendryphantes castaneus** Htz.

Balsam, Swannanoa Valley, among dead leaves.

**Philæus militaris** Htz.

Swannanoa Valley, not common, on trees.

**Pellenes borealis** Bks.

Mt. Graybeard, one male, in grass.

**Pellenes peregrinus** Peckh.

Swannanoa Valley, one female, under leaves.

**Habrocestum pulex** Htz.

Durham, Swannanoa Valley, common on fallen trees, stones, etc.

**Habrocestum parvulus** Banks.

Black Mts. (Beutenmüller).

**Thiodina sylvanus** Htz.

Durham.

**Phlegra leopardus** Htz.

Swannanoa Valley, one specimen, among dead leaves.

**Mævia niger** Htz.

Blowing Rock, Durham, Mt. Graybeard, Swannanoa Valley, very common on bushes and herbage.

**Wala palmarum** Htz.

Blowing Rock, Swannanoa Valley, on trees.

**Wala mitrata** Htz.

Swannanoa Valley, also on trees.

**Marpissa undata** DeGeer.

Black Mts. (Beutenmüller).

**Hyetia pikei** Peckh.

Durham.

**Icius canadensis** Blackw.

Blowing Rock.

**Fuentes lineata** Hentz.

Paint Rock.

**Tutelina elegans** Htz.

Asheville, Durham, Swannanoa Valley, Black Mts. (Beutenmüller).

**Zygoballus sexpunctatus** Htz.

Swannanoa Valley, in old field.

**Zygodallus parvus** Htz.

Swannanoa Valley, Durham, Black Mts. (Beutenmüller).

**Neon nelli** Peckh.

Swannanoa Valley, among fallen leaves.

**Sassacus papenhœi** Peckh.

Blowing Rock.

**Synemosyna formica** Htz.

Swannanoa Valley, on plants.

**PHALANGIDÆ.****Liobunum grande** Say.

Swannanoa Valley.

**Liobunum ventricosum** Wood.

Swannanoa Valley, common.

**Liobunum flavum** Banks.

Black Mts. (Beutenmüller).

**Liobunum crassipalpis** Bks.

Roan Mt.

**Oligolophus pictus** Wood.

Roan Mt.

**Scotolemon brunnea** Banks.

Collected by Mr. Beutenmüller at Black Mt.

**Caddo agilis** Banks.

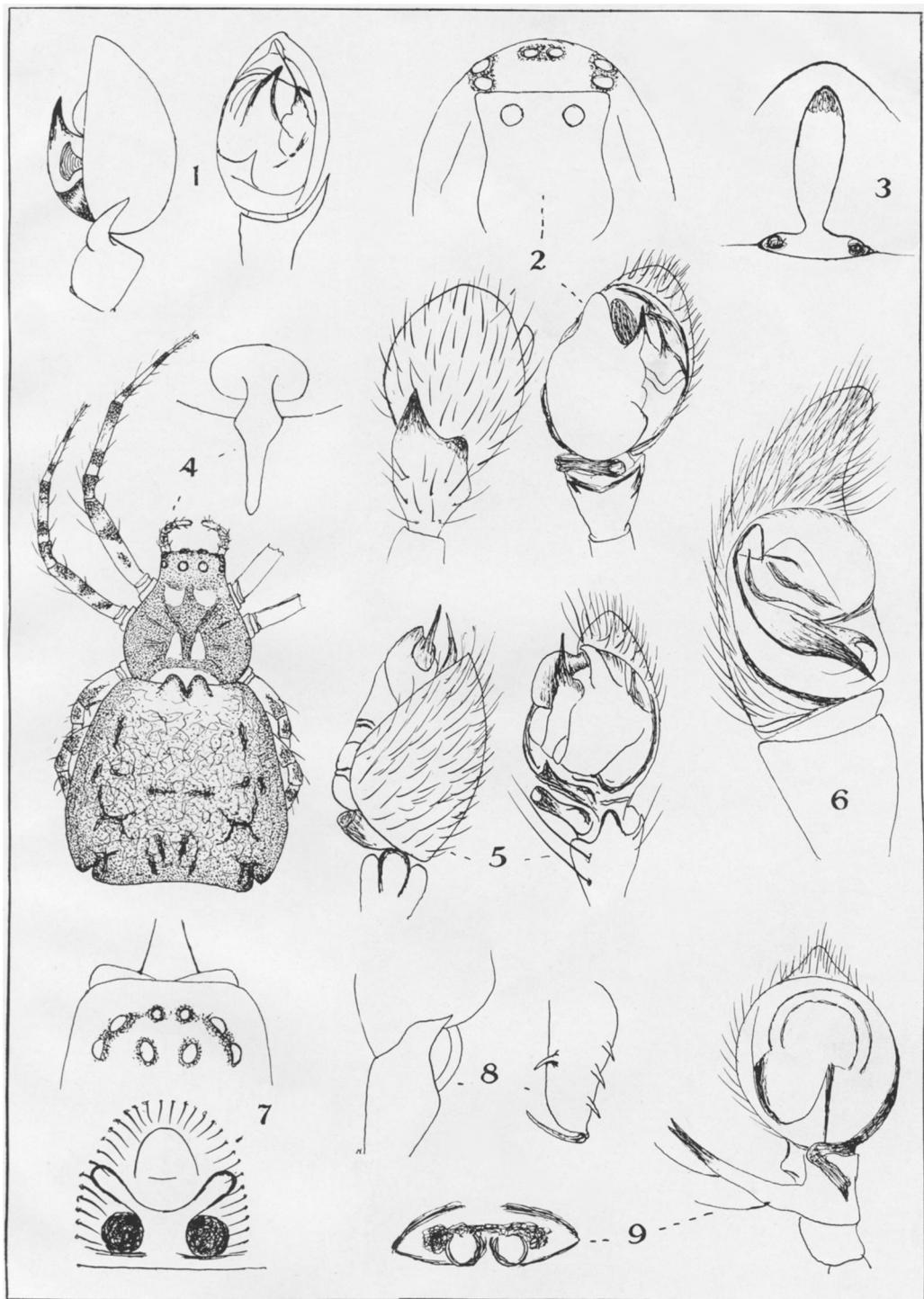
Swannanoa Valley, under leaves.

**Nemastoma dasycnemum** Crosby.

Swannanoa Valley, under leaves.

**EXPLANATION OF PLATES XXXIV, XXXV.**

Fig. 1.—*Zelotes depressa*.  
 " 2.—*Diplocephalus carolinus*.  
 " 3.—*Pardosa retrorsa*.  
 " 4.—*Epeira catawba*.  
 " 5.—*Gonglydium atramontensis*.  
 " 6.—*Pardosa retrorsa*.  
 " 7.—*Scotinella pallida*.  
 " 8.—*Gonglydium atramontensis*.  
 " 9.—*Dictyna armata*.  
 " 10.—*Lophocarenum maestum*.  
 " 11.—*Callilepis femoralis*.  
 " 12.—*Theridium atramontanum*.  
 " 13.—*Episinus amœnus*.  
 " 14.—*Philodromus carolinus*.  
 " 15.—*Episinus amœnus*.  
 " 16.—*Philodromus carolinus*.  
 " 17.—*Maso frontata*.



BANKS: ARACHNIDA FROM NORTH CAROLINA.

